

09/892,773

AMENDMENTS TO THE CLAIMS

- A1
1. (Currently Amended) A three-dimensional graphics drawing apparatus drawing an object based on color data and coordinate data, comprising:
- a transmittance setting unit for setting transmittance of the object based on a depth coordinate value included in said coordinate data; and
- a drawing unit for drawing the object based on the color data including the transmittance set by said transmittance setting unit and said coordinate data,
- wherein said transmittance setting unit sets the depth coordinate value of the object as the transmittance of the relevant object.

2. (Cancelled)

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3. (Currently Amended) A The three-dimensional graphics drawing apparatus according to claim 1, drawing an object based on color data and coordinate data,
- comprising:
- a transmittance setting unit for setting transmittance of the object based on a depth coordinate value included in said coordinate data; and
- a drawing unit for drawing the object based on the color data including the transmittance set by said transmittance setting unit and said coordinate data,
- wherein said transmittance setting unit uses a monotone increasing function of the depth coordinate value of the object to calculate the transmittance of the relevant object.

09/892,773

4. (Original) The three-dimensional graphics drawing apparatus according to claim 3, wherein said monotone increasing function is a linear function of the depth coordinate value of the object with a positive coefficient.

5. (Currently Amended) A The three-dimensional graphics drawing apparatus according to claim 1, drawing an object based on color data and coordinate data comprising:

a transmittance setting unit for setting transmittance of the object based on a depth coordinate value included in said coordinate data; and

a drawing unit for drawing the object based on the color data including the transmittance set by said transmittance setting unit and said coordinate data,

wherein said transmittance setting unit uses a reciprocal of the depth coordinate value of the object to calculate the transmittance of the relevant object.

6. (Original) The three-dimensional graphics drawing apparatus according to claim 1, wherein

said transmittance setting unit sets the depth coordinate value of the object as the transmittance of the relevant object when the depth coordinate value of the object is not greater than a threshold value, and sets a prescribed value as the transmittance of the object when the depth coordinate value of the relevant object exceeds the threshold value.

7. (Currently Amended) The three-dimensional graphics drawing apparatus according to claim [[1]] 3, wherein

09/892,773

said transmittance setting unit calculates the transmittance of the object using  $[[a]]$  the monotone increasing function of the depth coordinate value of the relevant object when the depth coordinate value of the relevant object is not greater than a threshold value, and sets a prescribed value as the transmittance of the object when the depth coordinate value of the relevant object exceeds the threshold value.

8. (Original) The three-dimensional graphics drawing apparatus according to claim 7, wherein said monotone increasing function is a linear function of the depth coordinate value of the object with a positive coefficient.

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unit

9. (Currently Amended) The three-dimensional graphics drawing apparatus according to claim  $[[1]]$  5, wherein

said transmittance setting unit calculates the transmittance of the object using  $[[a]]$  the reciprocal of the depth coordinate value of the relevant object when the depth coordinate value of the relevant object is at least a threshold value, and sets a prescribed value as the transmittance of the object when the depth coordinate value of the relevant object is less than the threshold value.

10. (Currently Amended) A three-dimensional graphics drawing apparatus drawing an object based on color data and coordinate data including a depth coordinate value, comprising:

a color register for storing the color data of the object;

a color data setting unit for setting the color data of the object in said color register when the depth coordinate value of the relevant object is not greater than a

09/892,773

threshold value, and setting a prescribed value in said color register so that the object having a depth coordinate value greater than the threshold value is prevented from being displayed when the depth coordinate value of the relevant object exceeds the threshold value; and

a drawing unit for drawing the object based on the color data stored in said color register and said coordinate data.

11. (Currently Amended) A three-dimensional graphics drawing method for drawing an object based on color data and coordinate data, comprising the steps of:

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setting transmittance of the object based on a depth coordinate value included in said coordinate data; and

drawing the object based on the color data including said transmittance set in the setting step and said coordinate data,

wherein said step of setting the transmittance of the object includes the step of setting the depth coordinate value of the relevant object as the transmittance of the object.

12. (Cancelled)

13. (Currently Amended) A The three-dimensional graphics drawing method according to claim 11, for drawing an object based on color data and coordinate data, comprising the steps of:

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setting transmittance of the object based on a depth coordinate value included in said coordinate data; and

09/892,773

drawing the object based on the color data including said transmittance set in the setting step and said coordinate data,

wherein said step of setting the transmittance of the object includes the step of calculating the transmittance of the object using a monotone increasing function of the depth coordinate value of the relevant object.

14. (Original) The three-dimensional graphics drawing method according to claim 13, wherein said monotone increasing function is a linear function of the depth coordinate value of the object with a positive coefficient.

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15. (Currently Amended) A The three-dimensional graphics drawing method according to claim 11; for drawing an object based on color data and coordinate data, comprising the steps of:

setting transmittance of the object based on a depth coordinate value included in said coordinate data; and

drawing the object based on the color data including said transmittance set in the setting step and said coordinate data,

wherein said step of setting the transmittance of the object includes the step of calculating the transmittance of the object using a reciprocal of the depth coordinate value of the relevant object.

16. (Currently Amended) The three-dimensional graphics drawing method according to claim 11, wherein

09/892,773

said step of ~~setting the transmittance of the object includes the step of setting the~~  
depth coordinate value of the relevant object includes setting the depth coordinate value  
as the transmittance of the object when the depth coordinate value of the relevant object  
is not greater than a threshold value, and setting a prescribed value as the transmittance of  
the object when the depth coordinate value of the relevant object exceeds the threshold  
value.

17. (Currently Amended) The three-dimensional graphics drawing method according  
to claim ~~[[11]]~~ 13, wherein

As  
WTH  
said step of ~~setting the transmittance of the object includes the step of calculating~~  
the transmittance of the object includes the steps of calculating the transmittance of the  
object using ~~[[a]]~~ said monotone increasing function of the depth coordinate value of the  
relevant object when the depth coordinate value of the relevant object is not greater than  
a threshold value, and setting a prescribed value as the transmittance of the object when  
the depth coordinate value of the relevant object exceeds the threshold value.

18. (Original) The three-dimensional graphics drawing method according to claim  
17, wherein said monotone increasing function is a linear function of the depth coordinate  
value of the object with a positive coefficient.

19. (Currently Amended) The three-dimensional graphics drawing method according  
to claim 15, wherein

said step of ~~setting the transmittance of the object includes the step of calculating~~  
the transmittance of the object includes the steps of calculatating the transmittance of the

09/892,773

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object using [[a]] said reciprocal of the depth coordinate value of the relevant object when the depth coordinate value of the relevant object is at least a threshold value, and setting a prescribed value as the transmittance of the object when the depth coordinate value of the relevant object is less than the threshold value.

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